# NOvA Experiment Status

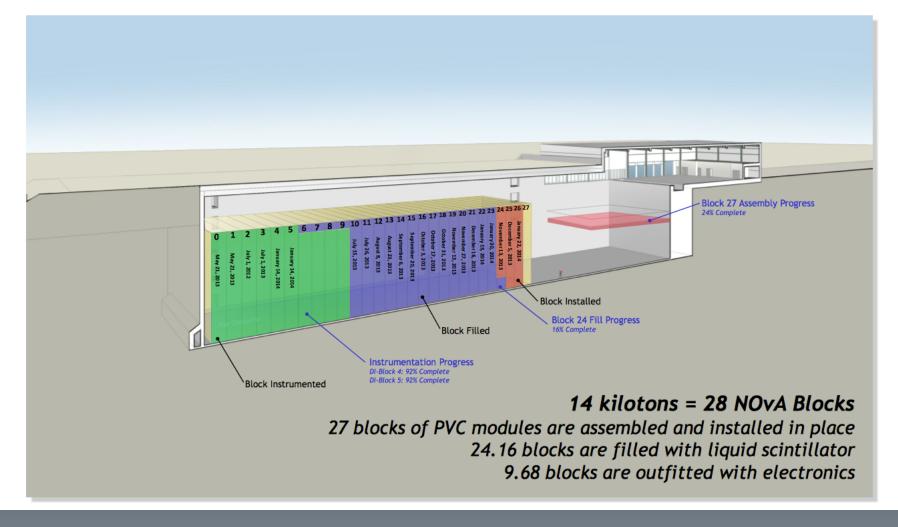
Steve Magill Argonne National Laboratory
All Experimenter's Meeting February 3, 2014

### **Detector Assembly Progress**

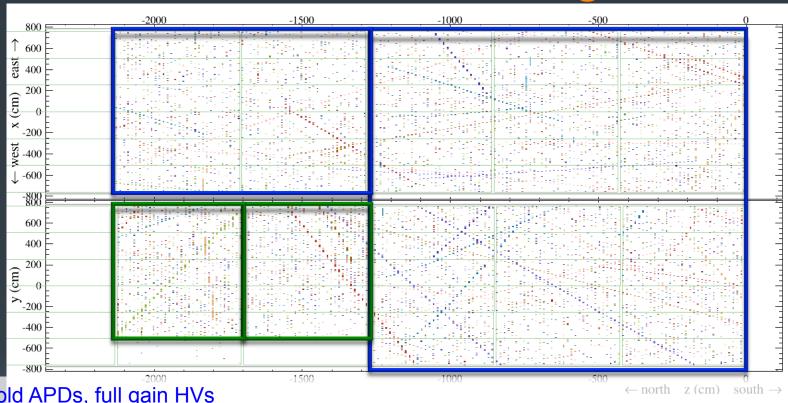


#### **NOvA Far Detector Assembly Progress**

Status Date: 03FEB14



### Far Detector Data-Taking



q (ADC)

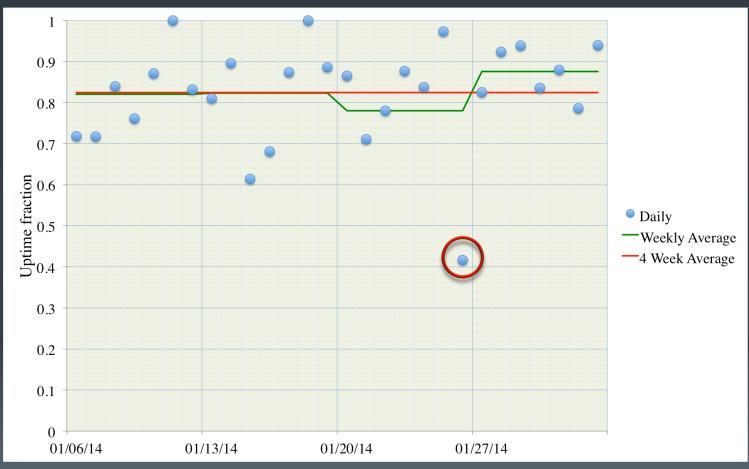
#### Cold APDs, full gain HVs

- Diblocks 1,2 APDs w A174 original installations (some replacements)
- Diblocks 3,4t APDs w/o A174
- Diblock 5t APDs w A174 baked

#### Warm APDs, full gain HVs

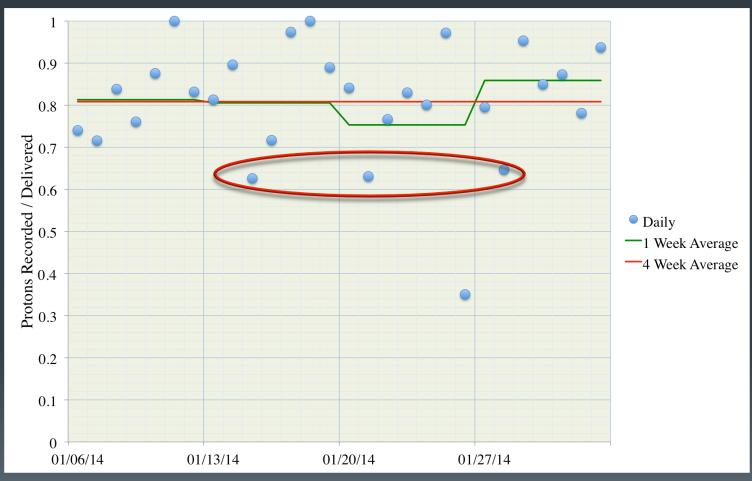
- DCMs-2-05-{07-11} APDs w A174 baked
- DCMs-2-04-{07-11} APDs w/o A174 (DCM-2-04-11 at full gain tonight)
- DCM-2-04-12 APD installation today

### DAQ Uptime



- Plot for past 4 weeks
- Averaging little over 80% for 4 weeks, >85% in past week
- Worst day Sunday 1/26 had a water leak (~7 hour recovery + ~5 hours to restart a run)

#### Fraction of POTs Recorded



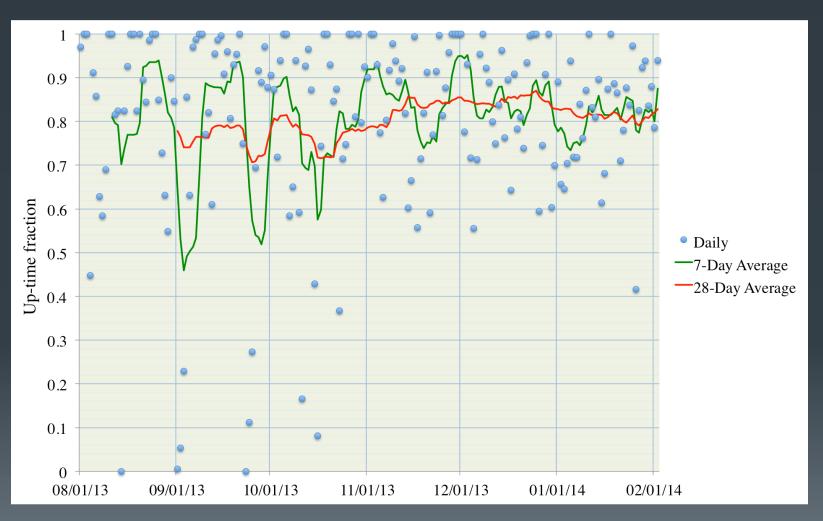
- Plot for past 4 weeks
- Averaging little over 80% for 4 weeks, ~85% in past week
- 3 days of <70% timing tests, detector repair and maintenance, DAQ start problems

## Integrated POT Exposure



- Recorded (blue), Delivered (red)
- Averaging ~5E18 recorded POT per week
- Total of ~5E18 POT for the past week
- Recorded ~80% of total delivered protons in last 4 weeks

#### UpTime Fraction since 08/01/13



Mostly > 70% since end of October 2013 <70% mostly isolated problems, water leak recoveries

#### Summary

- Cooled APDs looking good especially those without A174 primer coating
- Working on solving problems that will increase our Uptime efficiency:
  - DSO (pedestal runs) scan times
  - Shift efficiency during APD installation (better/standard procedures)
- Starting to gain experience more shifters repeating shifts